

Rabbit Monoclonal Antibody to Mouse Serine Peptidase Inhibitor, Clade A, Member 3C

Cat. No. CAB11599RM Lot. No. (See product label)

SPECIFICATION

Product Overview

Rabbit Monoclonal Antibody to Mouse Serine Peptidase Inhibitor, Clade A, Member 3C

Species

Mouse

Source

Rabbit

Antigen Description

Serpins are the largest and most diverse family of serine protease inhibitors which are involved in a number of fundamental biological processes such as blood coagulation, complement activation, fibrinolysis, angiogenesis, inflammation and tumor suppression and are expressed in a cell-specific manner. Serpins are a group of proteins with similar structures that were first identified as a set of proteins able to inhibit proteases. The acronym serpin was originally coined because many serpins inhibit chymotrypsin-like serine proteases (serine protease inhibitors). Over 1000 serpins have been identified. Serine protease inhibitor A3C, also known as Kallikrein-binding protein, KBP, and Serpina3c, is a secreted protein which belongs to the serpin family. The reactive center loop (RCL) extends out from the body of the Serpina3c protein and directs binding to the target protease. The protease cleaves the serpin at the reactive site within the RCL, establishing a covalent linkage between the serpin reactive site and the protease. The resulting inactive serpin-protease complex is highly stable. Variability within the reactive center loop (RCL) sequences of Serpina3 paralogs may determine target protease specificity.

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Specificity	Mouse SerpinA3c. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant Mouse SerpinA3c Protein
Isotype	Rabbit IgG
Clone	A017
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Mouse SERPINA3C in WB. Using a DAB detection system, the detection limit for Mouse SERPINA3C is approximately 5 ng/lane under non-reducing conditions and 2 ng/lane under reducing conditions. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Mouse SERPINA3C. The detection limit for Mouse SERPINA3C is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse SerpinA3c
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at - 20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

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GENE INFORMATION

Gene Name	Serpina3c serine (or cysteine) peptidase inhibitor, clade A, member 3C [<i>Mus musculus</i>]
Official Symbol	Serpina3c
Synonyms	SERPINA3C; serine (or cysteine) peptidase inhibitor, clade A, member 3C; serine protease inhibitor A3C; KBP; serpin A3C; alpha-1 antiproteinase; kallikrein binding protein; kallikrein-binding protein; serine (or cysteine) proteinase inhibitor, clade A, member 3C; serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3C; 1A1; spi2; Kalbp; Klkbp; MGC144822;
Gene ID	16625
mRNA Refseq	NM_008458
Protein Refseq	NP_032484
Function	peptidase inhibitor activity; serine-type endopeptidase inhibitor activity;

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